

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,431,901 B2
APPLICATION NO. : 09/775999
DATED : October 7, 2008
INVENTOR(S) : Paul Stiros et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

- Title Page Illustrating a Figure should be deleted, replace with new Title Page, (Attached)
- Delete Drawing Sheets 1-4, and insert Drawing Sheets 1-4 (Attached)
- Col. 8, Line 34, delete "comer" and insert --corner--

Signed and Sealed this

Second Day of March, 2010



David J. Kappos
Director of the United States Patent and Trademark Office

(12) United States Patent
Stiros et al.(10) Patent No.: US 7,431,901 B2
(45) Date of Patent: *Oct. 7, 2008(54) APPARATUS AND METHOD FOR
DEODORIZING CONFINED AIR SPACES
WHICH UTILIZE BAKING SODA(75) Inventors: Paul Stiros, Cincinnati, OH (US);
Jeffrey Donald Painter, Loveland, OH
(US); Frank Andrej Kvistok,
Cincinnati, OH (US); Charles Michael
Hardy, Norwood, OH (US)(73) Assignee: The Procter & Gamble Company,
Cincinnati, OH (US)(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 167 days.This patent is subject to a terminal dis-
claimer.

(21) Appl. No.: 09/775,999

(22) Filed: Feb. 2, 2001

(65) Prior Publication Data

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(51) Int. Cl.

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A62B 7/08	(2006.01)
B01J 3/00	(2006.01)
B01D 47/00	(2006.01)
B01D 24/00	(2006.01)

(52) U.S. CL 422/306; 422/1; 422/5;
422/120; 422/122; 422/123; 422/124; 422/242;
422/300; 96/153; 96/154; 96/222; 96/226;
55/528; 55/479; 261/88(58) Field of Classification Search 422/1,
422/5, 120, 122-124, 242, 300, 306; 96/153-154,
96/223, 226, 222; 55/246, 528, DIG. 5, DIG. 302,
55/479, 24, DIG. 30, 240; 261/DIG. 88

See application file for complete search history.

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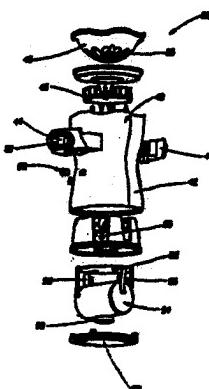
(Continued)

*Primary Examiner—Jill Warden**Assistant Examiner—Monzer R Chorbaji*(74) Attorney, Agent, or Firm—Brent M. Peebles; Kim W.
Zerby

(57) ABSTRACT

Apparatus and methods for removing malodor from the air, particularly from confined spaces are disclosed. Such devices and methods are useful for example for storing and preserving food in closed compartments such as refrigerators. The apparatus and methods utilize baking soda as the odor removing substance, either alone, or in combination with another odor removing substance, which may include activated carbon. In one embodiment, the apparatus has a detachable cartridge member which contains baking soda. In one version of this embodiment, the detachable cartridge member is used with an air moving member that draws air through the detachable cartridge member. In one embodiment, the method involves using a detachable cartridge member with an air moving member in one confined space, and using another cartridge member without the air moving member in another compartment of the confined space. In another embodiment, may also be used for emitting a scent, or other substance (including, but not limited to insecticides, air fresheners, deodorants, aromatherapy, aromatology, or any other odor that acts to condition, modify, or otherwise charge the atmosphere or to modify the environment) into the air.

14 Claims, 4 Drawing Sheets



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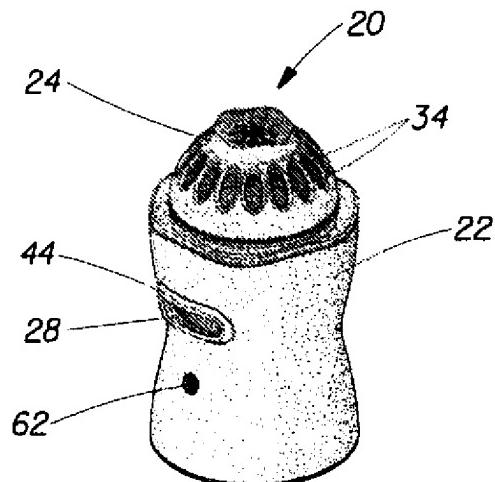


Fig. 1

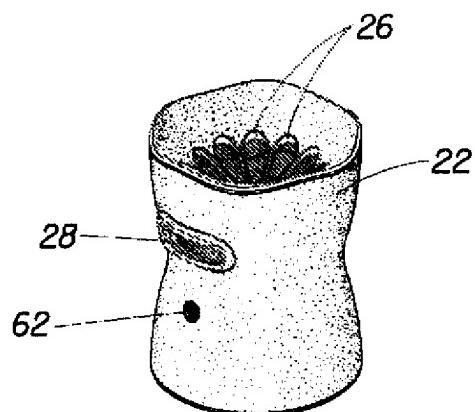


Fig. 2

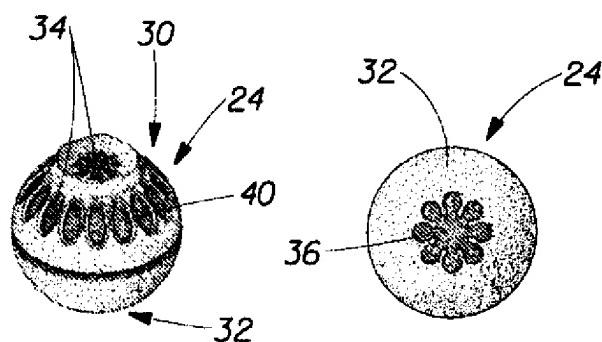


Fig. 3

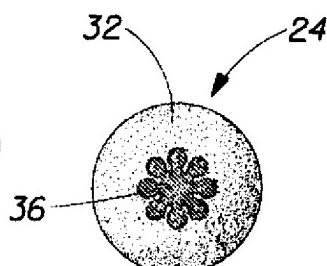


Fig. 4

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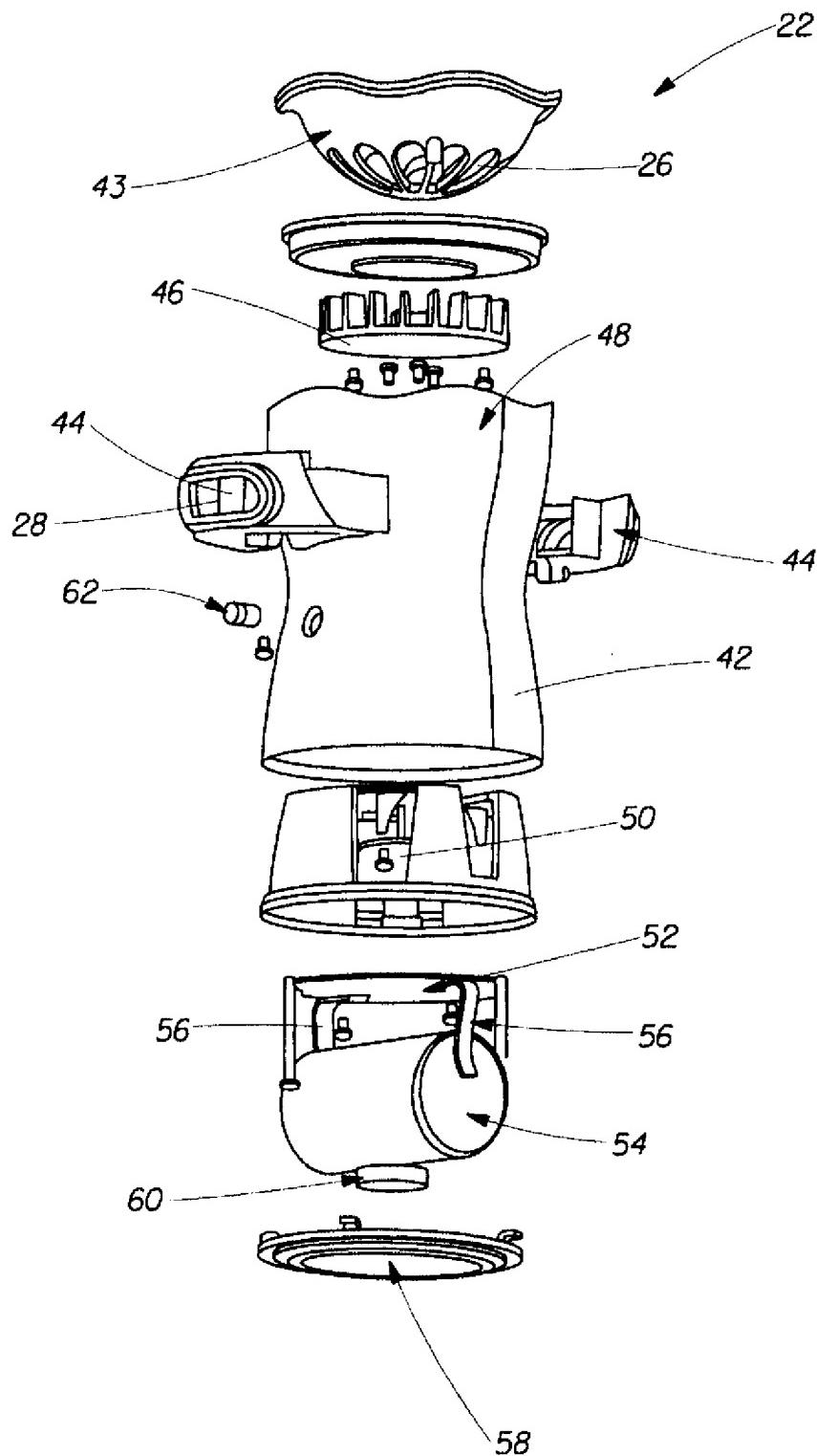


Fig. 5

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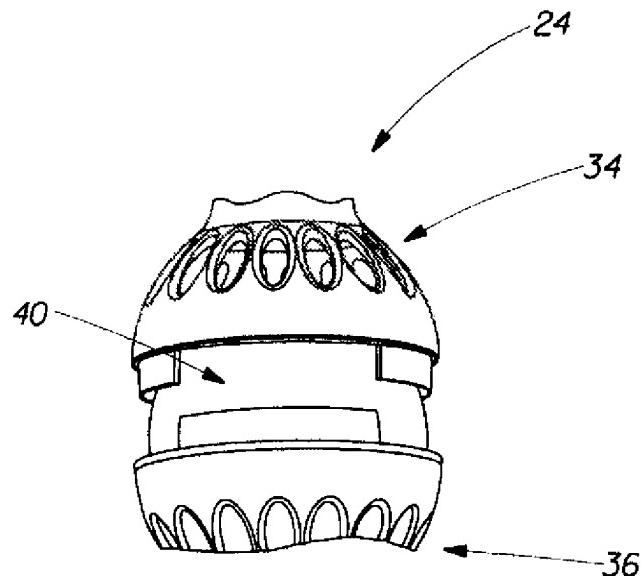


Fig. 6

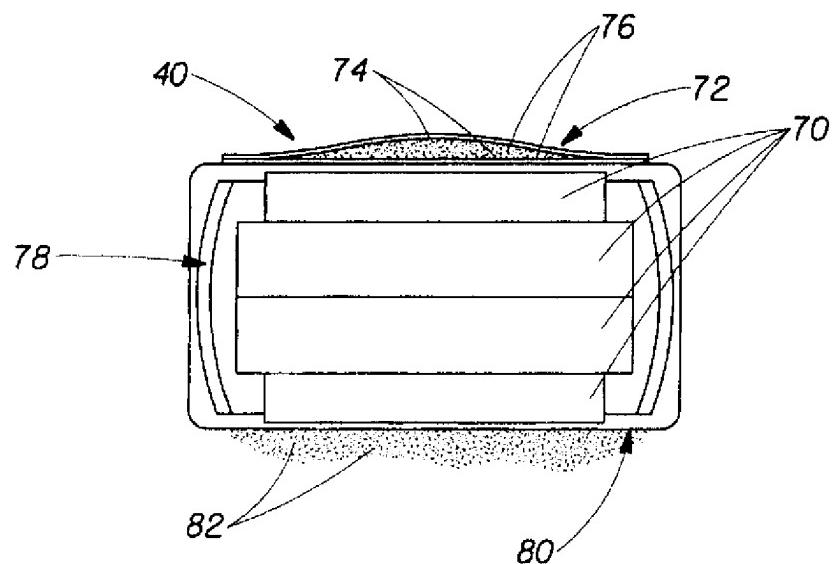


Fig. 7

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